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filSemiconductor integrated optical devices for photonic networks

- Wavelength Division Multiplexing Components (WDM) 1999 paper: 213
- OSA Trends in Optics and Photonics
- Takeuchi, Hiroaki; Yoshikuni, Yuzo
- Semiconductor integrated optical devices for photonic networks are summarized. One of them, an electroabsorption modulator integrated with a distributed feedback laser is effective...

Embossed Bragg Gratings Based on Organically Modified Silane Waveguides in InP

- Applied Optics, Vol. 39 Issue 27, pp.4942-4945 (2000)
- Liu, Jian; Lam, Yee-Loy; Chan, Yuen-Chuan; Zhou, Yan; Ooi, Boon Siew; Tan, Gu; Yao, Jian
- Considering the large variety of applications for optical glass waveguide gratings, the effective production method of embossing for micropatterning, and the unique advantages of...

A Tunable Wavelength Demultiplexer Using Logarithmic Filter Chains

- Journal of Lightwave Technology, Vol. 16 Issue 9, pp.1657- (1998)
- Lam, Cedric F; Vrijen, Rutger B; Chang-Chien, Patty P L; Sievenpiper, Daniel F; Yablonovitch, Eli
- This paper proposes a novel wavelength division multiplexer (WDM) demultiplexer design for dense WDM networks. The proposed demultiplexer consists of rectangular shaped periodic...



Low-Cost WDM-PON With Colorless Bidirectional Transceivers

- Journal of Lightwave Technology, Vol. 24 Issue 1, pp.158- (2006)
- Shin, Dong Jae; Keh, Y C; Kwon, J W; Lee, E H; Lee, J K; Park, M K; Park, J W; Oh, Y K; Kim, S W; Yun, I K; Shin, H C; Heo, D; Lee, J S; Shin, H S; Kim, H S; Park, S B; Jung, D K; Hwang, Seongtaek; Oh, Y J; Jang, D H; Shim, C S
- This paper presents a low-cost bidirectional (BiDi) wavelength-division-multiplexed passive optical network (WDM-PON) employing colorless uncooled BiDi transceivers (TRxs) and...



Ultra-compact microdisk resonator filters on SOI substrate

- Optics Express, Vol. 14 Issue 26, pp.12814-12821 (2006)
- Morand, Alain; Zhang, Yang; Martin, Bruno; Phan Huy, Kien; Amans, David; Benech, Pierre; Verbert, Jérémy; Hadji, Emmanuel; Fédéli, Jean-Marc
- The evanescent coupling of a 1.5 μm radius silicon microdisk with one or two Silicon-On-Insulator waveguides is studied. Thanks to the high refractive index contrast between Silica...



Doubly resonant single-layer bandpass optical filters

- Optics Letters, Vol. 29 Issue 10, pp.1135-1137 (2004)
- Ding, Y; Magnusson, R
- A bandpass filter based on guided-mode resonance effects in a single-layer periodic waveguide is presented. Strong refractive-index modulation is used to support the excitation of a...



Wavelength Selectivity of In-Line Fiber-Optic Filter Devices

- Applied Optics, Vol. 37 Issue 27, pp.6350-6354 (1998)
- Singh, Mukesh Pratap; Sharma, Anurag
- We present an analysis of the performance characteristics of in-line fiber-optic bandpass and band-stop wavelength filters. A planar waveguide model was used for numerical...



Postfabrication optimization of an autoregressive planar waveguide lattice filter

- Applied Optics, Vol. 36 Issue 3, pp.642-647 (1997)
- Madsen, Christi K; Zhao, Jian H
- Narrow-band planar waveguide filters are sensitive to fabrication errors that make it difficult to realize multistage filters successfully and maintain tight center wavelength...



Bandpass filters based on phase-shifted photonic crystal waveguide gratings

- Optics Express, Vol. 15 Issue 18, pp.11278-11284 (2007)
- Chen, Chao; Li, Xuechun; Li, Hanhui; Xu, Kun; Wu, Jian; Lin, Jintong
- In this paper, a bandpass transmission filter realized in phase-shifted waveguide gratings based on photonic crystals (PCs) is proposed. Phase-shift regions each composed of one...



Design and realization of an all-fiber broadband tunable gain equalization filter for DWDM signals

- Optics Express, Vol. 15 Issue 21, pp.13519-13530 (2007)
- Varshney, R K; Nagaraju, B; Singh, A; Pal, B P; Kar, A K
- Design and fabrication of a tunable gain equalization filter for dense wavelength division multiplexed (DWDM) signals through erbium doped fiber amplifiers (EDFA) is reported. It is...



Extended Optical Fiber Line Testing System Using New Eight-Channel L/ U-Band Crossed Optical Waveguide Coupler for L-Band WDM Transmission

- Journal of Lightwave Technology, Vol. 21 Issue 12, pp.3316- (2003)
- Araki, Noriyuki; Izumita, Hisashi; Honda, Nazuki; Nakamura, Minoru
- This paper describes the system design for an extended optical fiber line testing system that uses a new L/U-band crossed optical waveguide coupler and a fiber Bragg grating filter for...



Compact and Low-Loss Interleave Filter Employing Lattice-Form

Structure and Silica-Based Waveguide

- Journal of Lightwave Technology, Vol. 22 Issue 3, pp.895- (2004)
- Oguma, Manabu; Kitoh, Tsutomu; Inoue, Yasuyuki; Mizuno, Takayuki; Shibata, Tomohiro; Kohtoku, Masaki; Hibino, Yoshinori
- This paper describes a compact and practical interleave filter with uniform multi/demultiplexing properties and a wide operational wavelength range realized by using a lattice-form...

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